

In the Claims

The following is a marked-up version of the claims with the language that is underlined ("__") being added and the language that contains strikethrough ("---") being deleted:

1-13. (Canceled)

14. (Currently amended) An assembly, comprising:
an electrical component having a plurality of contacts ~~formed~~ provided thereon; and
an electrical device having ~~at least one a~~ ledge that ~~includes~~ on which a plurality of discrete, spaced contact terminals ~~are provided~~ thereon, wherein at least one of the contact terminals ~~being~~ is electrically connected to at least one of the contacts ~~formed~~ provided on the electrical component.

15. (Original) The assembly of claim 14, further comprising at least one conductor member that electrically connects the at least one contact terminal of the electrical device to the at least one contact of the electrical component.

16. (Original) The assembly of claim 15, wherein the at least one conductor member comprises a bond wire.

17. (Original) The assembly of claim 14, wherein the electrical component comprises a cavity that is sized and configured to receive a portion of the electrical device such that the contact terminals are arranged in direct opposition to the contacts of the

electrical component when the electrical device is disposed within the cavity.

18. (Original) The assembly of claim 17, wherein the at least one contact terminal of the electrical device and the at least one contact of the electrical component are soldered together.

19. (Original) The assembly of claim 17, wherein the at least one contact terminal of the electrical device and the at least one contact of the electrical component are adhered to each other with electrically conductive adhesive.

20. (Currently amended) The assembly of claim 14, wherein the electrical device is an atomic resolution storage (ARS) device.

21. (Currently amended) The assembly of claim 14, wherein the electrical component is a printed circuit board (PCB).

22. (New) The assembly of claim 14, wherein the contacts of the electrical component comprise contact pads provided on a surface of the electrical component.

23. (New) The assembly of claim 14, wherein the electrical device comprises two ledges formed on opposite sides of the electrical device, each ledge comprising a plurality of discrete, spaced contact terminals.

24. (New) The assembly of claim 15, wherein the electrical device comprises a top layer, a middle layer, and a bottom layer, wherein the bottom layer contacts a surface of the electrical component.

25. (New) The assembly of claim 24, wherein the top layer is smaller than the middle layer such that the middle layer forms the ledge.

26. (New) The assembly of claim 24, wherein the at least one conductor extends down from the at least one contact terminal on the ledge to the at least one contact on the electrical component.

27. (New) The assembly of claim 17, wherein the electrical device comprises a top layer, a middle layer, and a bottom layer, wherein the top layer is smaller than the middle layer such that the middle layer forms the ledge.

28. (New) The assembly of claim 27, wherein the portion that is sized and configured to be received in the cavity of the electrical component is the top layer of the electrical device.

29. (New) The assembly of claim 28, wherein the top layer is sized and configured such that the top layer fits completely within the electrical component cavity such that contact terminals of the electrical device contact electrical contacts of the electrical component.

30. (New) An assembly, comprising:

an electrical component having a surface that includes a plurality of contacts;

an electrical device having a top layer, a middle layer, and a bottom layer, wherein the bottom layer contacts the surface of the electrical component, the top layer is smaller than the middle layer so as to form a ledge, and the ledge includes a plurality of discrete, spaced contact terminals; and

a plurality of conductors that extend down from the plurality of contact terminals of the electrical device to the plurality of contacts of the electrical component so as to electrically connect the electrical device to the electrical component.

31. (New) The assembly of claim 30, wherein the conductors comprise bond wires.

32. (New) The assembly of claim 30, wherein the contacts of the electrical component comprise contact pads provided on the surface of the electrical component.

33. (New) The assembly of claim 30, wherein the electrical device comprises two ledges formed on opposite sides of the electrical device, each ledge comprising a plurality of discrete, spaced contact terminals.

34. (New) The assembly of claim 30, wherein the electrical device is an atomic resolution storage (ARS) device.

35. (New) The assembly of claim 30, wherein the electrical component is a printed circuit board (PCB).

36. (New) An assembly, comprising:

an electrical component having a surface, a cavity formed within the surface, and a plurality of contacts provided on the surface adjacent an edge of the cavity;

an electrical device having a top layer, a middle layer, and a bottom layer, wherein the top layer is smaller than the middle layer so as to form a ledge, the ledge including a plurality of discrete, spaced contact terminals, wherein the top layer is disposed within the cavity of the electrical component such that contact terminals on the ledge of the electric device align and contact contacts on the surface of the electrical component.

37. (New) The assembly of claim 36, wherein the plurality of contact terminals of the electrical device and the plurality of contacts of the electrical component are soldered together.

38. (New) The assembly of claim 36, wherein the plurality of contact terminals of the electrical device and the plurality of contacts of the electrical component are adhered to each other with electrically conductive adhesive.

39. (New) The assembly of claim 36, wherein the electrical device is an atomic resolution storage (ARS) device.

40. (New) The assembly of claim 36, wherein the electrical component is a printed circuit board (PCB).

41. (New) The assembly of claim 36, wherein the contacts of the electrical component comprise contact pads provided on the surface of the electrical component.

42. (New) The assembly of claim 36, wherein the electrical device comprises two ledges formed on opposite sides of the electrical device, each ledge comprising a plurality of discrete, spaced contact terminals.